



NEWS & OPINION

DATA SYSTEMS

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February 19, 1973

Credit Union Growth, Prizes And New Officers Highlight Meeting

Several hundred Litton Employees Federal Credit Union members and their families were attracted to the annual membership meeting on January 27 where they learned of a continued growth (500 per cent) in size of the Credit Union over the last seven years.

"Come borrow money," said Bob Crystal, Credit Union manager, who told the audience that \$6 million is available for loans to members. A slide presentation illustrated the various types of loans available through the Credit Union.

New highs reported for the year ending last December 31 included more than 13,800 members' savings accounts totaling \$15.5 million, \$10.5 million in outstanding Credit Union loans to over 8,500 members, total income topping \$1.25 million and total assets and members' equity rising above the \$16 million mark.

In addition to full-time facilities in Van Nuys and Woodland Hills, the Credit Union operates an office serving AMECOM and Biometrics employee members. A Credit Union at Litton's LITCOM division in Melville, N.Y., will probably open in March.

Jim Belcher, Guidance &

Control, was announced as Credit Union president for the second straight year. Other officers are DSD's Dick Cameron, vice president; and Frank Darrah Sr., treasurer. Hal Morgan of Guidance & Control is secretary.

Jim, Dick, Hal and Norm Roberts of Corporate were elected to two-year terms of office on the board of directors. Evie Marker, G&C, was elected for a one-year term.

The membership also approved nomination of Bob Johnson, George P. Lucas and Rich Oullette of G&C to serve one year credit committee terms. The five supervisory committee members appointed by the board of directors include DSD employees George Schaechtel, secretary; Paul Duerr, and Don Grotjan. Don Dove of G&C was announced as chairman, and George Crise of Encoder is the remaining supervisory committee member.

DSD's George McCormick won the top door prize of a Litton deluxe model 402 microwave oven. Top cash awards of \$100 and \$50 went to former Litton employees Charlene Kuchinka and Antony Rizuti, who retained their Credit Union membership under the

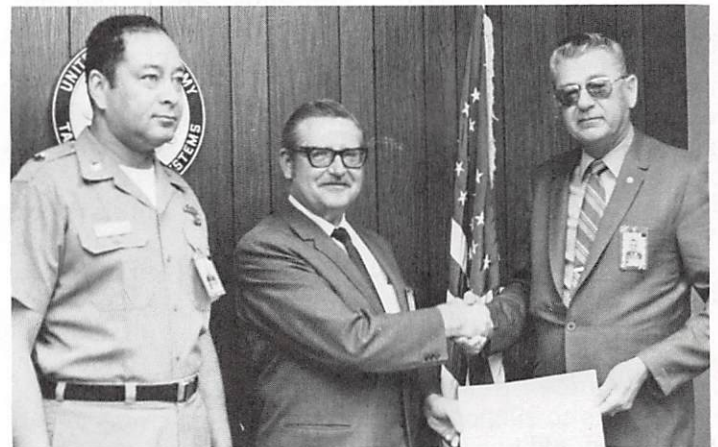
Continued on Page 5



Fisher New President

J. F. Fischer Jr. was announced as the 1973 president of the IEEE Administrative Committee, Professional Group on Electromagnetic Compatibility.

The G-27 professional group constitutes a 1600 member segment of the IEEE whose administrative committee is responsible for the administrative policy and technical activities of the group in the discipline of Electromagnetic Compatibility.



OFFICIAL COMMENDATION — A certificate recently presented by the Department of the Army states that "Cecil E. Morgan is officially commended for outstanding performance for the period January 1972 to January 1973 as computer equipment analyst in the PM ARTADS Resident Development Office, Van Nuys, Calif." It further stated, "Mr. Morgan has achieved outstanding results through his exceptional knowledge of all aspects of integrated logistical support of a major, complex, computer-based command and control system. As a direct result of his expertise, sound judgement and foresight, many problems associated with the field support of TACFIRE, a new and unprecedented ADP System, have been minimized or remedied. His professional competence, coupled with his maturity and sense of proportion have provided the project manager with the highest calibre of government representation in the Resident Development Office," signed Robert E. Murray, director, PM ARTADS Resident Development Office. Shown congratulating Cecil (center) is Lt. Col. Glen Jones (at left) and Robert Murray.

DSD PROGRAM REVIEW — PROGRESS AND FUTURE

With a new year barely beginning, management and employees are reviewing DSD programs. The following article reports on the progress of these programs.

TOS

In June 1972, DSD was awarded an initial TOS² (Tactical Operations System Operable Segment) contract. The contract consists of five systems, including hardware, test and demonstration software support services.

TOS² is an on-line, real time information processing system designed to aid field Army Tactical commanders in the conduct of field operations.

All systems make use of the AN/GYK-12 computer developed by DSD for TACFIRE. Field systems (TOS²) are scheduled for delivery in March 1974. The initial design and fabrication is currently underway. First system deliveries (SSS) will be made to Computer Systems Command (CSC), Falls Church, Virginia in June and December of this year.

TOS² will be tested at Fort Hood and will be the heart of field Army Tactical Data Systems which also includes TACFIRE and AN/TSQ-73. The contract also covers options for field maintenance services, spare parts to support field testing and additional hardware items.

TACFIRE

The TACFIRE Program entered a new phase with the delivery of four Battalion and one Division level Fire Direction Centers to the Army on March 31, 1972. The equipment is currently undergoing Engineering Test/Extended Service Tests (ET/EST) at Fort Sill, Oklahoma, and White Sands Missile Range, New Mexico.

Prior to the delivery of the ET/EST equipment, Litton had delivered a set of equipment for use as a Programming Support System (PSS). This equipment was used to develop and test the TACFIRE software currently being used in the ET/EST test. In addition, a Training Support was delivered and was used to train Army personnel to operate and maintain the TACFIRE equipment during the ET/EST testing.

TACFIRE is an integrated on-line tactical computer system which will increase the effectiveness of field artillery support through increased accuracy, better and more rapid use of target information and reduced reaction time. It will also provide greater efficiency in the determination of fire capabilities and the allocation of fire units to the targets.

TACFIRE consists of computational and display centers, configured into Fire Direction Centers which may be housed in standard S-280 shelters or which may be set up in bunkers, buildings, tents, etc.

TACFIRE also includes remote devices for use by forward observers, firing batteries, fire support officers, missile battalions and tactical operation centers.

Automatic data processing is applied to technical fire control, tactical fire control, fire planning, artillery target intelligence, artillery survey, meteorological data and ammunition and fire unit status.

AN/TSQ-73

DSD was awarded a contract for AN/TSQ-73 in July 1970 by the Army Missile Command (MICOM). The contract calls for the design, development, fabrication and test of two air defense systems to be used for the coordination and control of Hawk and Hercules weapon systems.

The AN/TSQ-73 consists of a single shelter housing computers, communications, displays, radar and video simulation equipment. The system is being designed to be the most advanced microelectronic air defense system of its time.

The AN/TSQ-73 system utilizes TACFIRE type circuits to minimize production costs.

The AN/TSQ-73 systems numbers 1 and 2 are undergoing RDAT testing and upon completion will go to Fort Bliss for field tests and then ultimate production.

In August of 1972 a significant multi-million dollar contract for a Tactical Air Control Systems/Tactical Air Defense System (TACS/TADS) was awarded to DSD by ARTADS (Air Defense Control and Communication Systems) Redstone Arsenal, Alabama. The TACS/TADS program requires design, development, and test of a system that provides for interoperability among the joint services — Army (AN/TSQ-73), Navy (NTDS), Marines (MTDS), and Air Force (AN/TSQ-91). The AN/TSQ-73 system is the Army's test vehicle. TACS/TADS testing will take place at Fort MacArthur, Long Beach, during the latter part of 1973.

TRI-TAC

Litton is teamed with GTE-Sylvania, the prime contractor, to develop a prototype

automatic Communication Switching system for TRI-TAC (Tri-Services Tactical Communication). Litton's responsibility is for the development of the computer processor subsystems for the Circuit and Store and Forward Switches.

The Sylvania/Litton team is competing against the ITT/Burroughs alignment for Phase II, the Engineering Development phase. The successful team will design and develop preproduction equipments for the AN/TTC-39 System family of switches. These systems will be hybrid, modular, mobile/transportable, and tactical automatic switching equipments. The winner of Phase II will be the supplier of AN/TTC-39 production systems.

The Litton contract calls for supplying hardware, support software installation and maintenance services.

The AN/TTC-39 program is managed by the Army's ATACS (Army Tactical Area Communication System) Office. Technical management is provided by the Communication ADP Laboratory, USAECOM, with user/DOD interests represented by the TRI-TAC Office all located at Fort Monmouth, New Jersey.

MTDS

DSD has been associated with the Marine Corps on the MTDS (Marine Tactical Data Systems) program for 15 years. MTDS is an advanced, fully operational command and control system and is one of the oldest and most successful DSD programs.

In connection with the program, DSD has produced two partial AOCs (Air Operations Central), and 12 complete AOCs, each consisting of 14 shelters. These

AOCs are the computerized air defense/air control systems of the MTDS.

The AOC provides computer assistance in the command and control of tactical air operations, helping Marines to direct friendly aircraft and surface-to-air missiles in forward combat areas.

Field engineering service has been an on-going program since delivery of the first R&D model of the AOC in 1961. The modification program for AOC equipment improvement and upgrade increases in scope yearly with the advent of new or extended requirements and provides DSD the opportunity to continue its support to the Marine Corps in maintaining the AOC as the front runner in the tactical air control field. Ongoing product support programs include unit overhaul and repair, spares and field engineering.

In July 1971 the Naval Electronic Systems Command awarded DSD a contract to perform studies and to develop feasibility models related to extending the life of the AOC ten years beyond its originally conceived life cycle. Five studies are currently completed and two studies in progress will provide a portion of the data base for an economics analysis.

E2-C

The L304F E2-C computer is installed in the Grumman Airborne Early Warning carrier based aircraft designated E2-C. This is the third generation of the E2 aircraft — the previous designations being E2-A and E2-B.

The DSD computer, being the central processor, is the heart of the Command and Control system on board the aircraft processing Radar, Navigation, Pas-

sive Detection, LINK 4 and LINK 11 data. Six pre-production systems and twelve production E2-C systems have been delivered to Grumman Aerospace Corporation in Long Island, N.Y.

All engineering tests — Qualification, Reliability Demonstration and Maintainability Demonstration have been successfully completed, and DSD is presently manufacturing the second production lot of computers.

Delivery of these eight systems is scheduled to begin in June 1973. A contract is also expected by July 1973 for an additional nine computers.

The E2-C program has demonstrated excellent Technical and Schedule Performance. To date two extensive Flight Test programs have been successfully completed and a third is scheduled for May and June of this year. A major DSD schedule milestone was achieved with the completion of all production System Acceptance Tests ahead of contract schedule.

TWO WAY DATA LINK AN/ASW-27B

DSD is under contract to the U.S. Navy to supply the AN/ASW-27B Communications Set (Two Way Data Link) as Government Furnished Equipment to Grumman.

Designed to be installed in the Grumman F-14 aircraft the AN/ASW-27B with an integral VHF Transceiver, serves as the controlling or controlled terminal in the NATO LINK 4 Data Link System. The system processes data for Automatic Carrier Landing, Precision Course Direction, traffic control, intercept vectoring and automatic pilot control.

To date, 31 of the 91 units on order have been

delivered. Delivery is scheduled to complete in September 1973.

Negotiations are in process with the U.S. Navy for an additional 59 units with a go-ahead expected shortly. Qualification testing of the system is scheduled to begin in mid-February with completion anticipated in May of 1973.

F-15 IRE

Data Systems Division is under contract to the McDonnell Douglas Corporation, St. Louis, Mo., to supply Identification Friend/Foe Reply Evaluator (IRE) units for use in the F-15 aircraft. This all-digital, microelectronic unit provides video detection, defruiting, decoding, target detection/location and automatic Mode 4 evaluation.

Fifteen pre-production units have been delivered and are being utilized in Engineering Tests at DSD and Flight Tests in St. Louis and Edwards Air Force Base. Both the Qualifications Tests and Reliability/Maintainability Demonstrations have started and are scheduled to complete in May and September of this year respectively.

DSD is in process of manufacturing 41 production units with delivery scheduled to start in June 1973. Production Options in the contract provide for delivery of an additional 291 units over the next several years.

AN/GPA-122

The AN/GPA-122 IFF/SIF Coder and Decoder equipment is a microelectronic Identification Friend or Foe (IFF) subsystem that increases the usefulness of conventional IFF systems. The equipment processes Mode 1, 2 and 3/A data and as an option provides both pulse to pulse and bracket defruiting.

Initially developed for the United States Air Force, the GPA-122 is utilized in both airborne and ground-based installations in various countries. Approximately 400 subsystems have been delivered to date. Future potential of the program is estimated at an additional 150-200 units.

BTE

The AN/GSA-77, Data Converter, Coordinated Air Defense System, referred to as Battery Terminal Equipment (BTE) is a microelectronic subsystem providing fire control coordination between air-defense command posts and batteries. Originally developed for the U.S. Army this highly reliable unit is installed in NIKE-Hercules and Hawk batteries.

A unique feature of the BTE is the incorporation of automatic self-test and fault isolation techniques. This, together with a Field Reliability exceeding specification requirements and a history of on-time deliveries, has extended its application to many NATO countries.

Even though this equipment has been in production for several years, there remains a significant future potential.

DASC

Data Systems was awarded the Direct Air Support Central (DASC) contract by NAVELX for the U.S. Marine Corps on July 29, 1970. The DASC system will automate the command and control of fighter-bombers and helicopters on close air support, reconnaissance, troop re-supply and medical evacuation missions.

The system, designated the AN/UYQ-4, will be housed in helicopter transportable shelters and will consist of a high-speed dig-

Continued on Page 9

DATANNOUNCEMENTS

DSD has made significant organizational changes since the last publication of News & Opinion. To emphasize divisional responsibility for performance on our ongoing contract programs, Engineering has created an essentially projectized organization in support of U.S. Army and U.S. Marine Corps Programs. To facilitate the completion of the Ship Electronic Systems Programs and to provide for an orderly transition of LHA work, and eventually, DD-963 work to Mississippi, a project type organization has also been formed for the Ship Electronic Systems Programs.

A new organization, Business Development, has been formed under Tom O'Donnell by centralizing all new business planning and implementation, IRAD and bidding expense activities one cohesive unit in order to provide continued growth for the Division in the most effective manner. The following indicates the scope of these changes and the personnel involved.

The Business Development organization under the direction of Tom O'Donnell, vice president, includes: Herb Weiss, scientific advisor; Roy Ballard, administration; Jan Munson, manager of Customer Relations; Al Lapidus, acting manager of Technical Information; Rich Shivers, director Marketing; Jim Wrzesinski, director Command & Control Systems; Don Payne, acting director International Programs; and Jerry Weissman, manager Research & Development.

In addition to addressing domestic and international business opportunities, the Marketing organization will support on-going programs conducted by Program Management and Ship Electronic Systems departments.

Revisions in the Marketing organization include, under director Rich Shivers: Bob White, staff; Don Payne, manager International Programs with Gerry Carpenter, Paul Gray, Tom McAusland; Leo Schijven and Lyle Wall reporting to him; John Schoonvel, manager Command and Control Systems Marketing with Paul Raubeson reporting to him; Pat Quinn, manager Research and Development

Marketing; and in the Washington D.C. office: Charlie Cochran managing Navy and Marine Corps business; Jim McHenry managing Army business; Hugh Rardin for Ship Electronics business representation; Vincent O'Donnell, Ft. Monmouth Office; Bruce Gravette, Boston; Jim McKenna, Huntsville; and Alex Dumbrigue, El Paso.

The following organizational structure and assignments for the Command and Control Systems Directorate of the Business Development organization has been announced. Under the direction of Jim Wrzesinski are: Paul Hensel, manager Air Space Management Systems. Reporting to him are: Claude Horne, Ward White, Fred Wilson and Al Powers. Gil Miller, manager Tactical Data Systems; reporting to him are Mike Bavaro, Sam Davis, Sandy Meltzer and Hank Beers. Vitaly Bloom, manager Naval Systems; reporting to him are Bob Lough and Hal Martin. Delmar Jacoby, manager Communication and Strategic Systems; reporting to him are Lynn Martin and Paul Mauro; Al Strassman, manager Product Applications; reporting to him are Sandy Meltzer and Frank Kaatz.

Reporting to Don Payne, acting director, International Programs, are Frank Hamilton, Ground Systems; Fred Wilmers, Missile Command and Control; and Jerry Asaro, Air Defense Command and Control.

Appointments in the Research and Development Department of the Business Development organization effect: Ralph Mauriello, manager Computers, will be responsible for management of Computer IRAD projects and acquisition and management of advanced computer development contracts. Dave Piatt, manager Displays, will be responsible for management of display IRAD projects and acquisition and management of advanced display development contracts. He continues his responsibility as Program manager on the MEOCS, ADP Flat Panel and X-Y Cockpit Display Programs. Karl Kiefer, manager Communication/Signal Processing and Memories, will have responsibility for management of IRAD Communication/Signal Processing and Memory projects and acquisition and management of advanced development contracts in these technology areas. They will report to Jerry Weissman, manager of Research and Development.



**Bob Lopez, director
Army Systems Laboratory**

The following are changes in Engineering: The Army Systems Laboratory

directed by Bob Lopez with total authority and responsibility for the Army programs within Engineering. Reporting to Bob are: Dennis Eriksen, AN/TSQ-73 Project manager; Irv Korn, Army Systems Software and Test manager; Dick Miller, TOS Project manager; John Mueller, TRI-TAC Project manager; Chuck Taylor, TACFIRE Project manager; and Jim Valtos, Design, Documentation and Control manager.

The Systems and Products Laboratory under the direction of Joel Sills has the total authority and responsibility for the on-going Marine Corps programs, Navy programs (not DD-963 or LHA related) as well as the BTE, AN/GPA-122 and F-15 programs. Reporting to him are: Bob Fox, Systems Project manager (E2, BTE, AN/ASW-27, AN/GPA-122, F-15, L-304H and Identor); Ray Green, DASC Project manager; Ed Lee, DTAS Project manager; Don Moeller, MTDS Project manager.

Ken Snapp will direct the Advanced Systems and Products Laboratory. This Laboratory is the focal point within Engineering for IRAD, R&D and new business activities which are not an extrapolation of existing systems or products. In addition it will have the resources and responsibility for system analysis, including math analysis, hardware and software design analysis; modeling and simulation; advanced and support software and advanced product development. Reporting to Ken are: Dr. Don Adelman, senior scientist, who will also be acting manager System Analysis; Dr. Ray Howard, Advanced Systems and New Business manager; and Ron Marson, Advanced Product Development manager.

The Engineering Assur-

ance and Support Lab is directed by Clete Isbell with responsibilities for providing product design support to Engineering for memories (except the MCMU), power systems, test equipment, EMI, EMC, tempest and computer aided design. The Lab also has Engineering responsibility for engineering assurance; engineering standards, audit and control and technical data. Reporting to Clete are: Bill Ballard, Product Support manager; Rich Bergfeld, Engineering Standards, Audit and Control manager; Ed Cole, Engineering Assurance manager; and Dave Decker, Technical Data manager.

A consolidation of the DD-963 Program Office and Engineering has been effected. The DD-963 Program Office under Dick Fleck, and the DD-963 Engineering functions under Dr. George Chapin are being consolidated with Dick Fleck as director, DD-963 Program, and Dr. George Chapin, deputy director. Bob Del Morris, who was named director DD-963 Program/Mississippi, in November 1972 will report to Dick Fleck. Reporting to Dick and George with the following responsibilities are: Doug Somerville, manager System Development; Art Tuckman, manager Communications; Lou Broccoli, manager System Test; Jim Hayes, manager Computer Programming; Leo Frankenstein, manager PP-&C; Bill Knight, manager ILS.

The LHA California based engineering will now report to Garl Satterthwaite who will report to Dan Dudas, vice president Ship Electronic Systems. In addition, the Ship Electronic Systems engineering personnel who are supporting Advanced Ship Electronic Systems Programs (such as

Surface Effect Ship and LAMPS) will report to Garl.

Operations Project Teams have been formed. The Operations Project Manager (OPM) will be the Project Team leader and be assisted by a permanently assigned specialist from the Materiel, Production Control, Manufacturing Engineering and Quality Control Organizations.

Operations Project Teams are: E2C — Mike Archer, OPM; Jack Kinzel, Materiel; Don Schwerdtfeger, Production Control; Ted Theodore, Manufacturing engineer; Jim Scott, Quality. TAC-FIRE — Jerry Schiffman, OPM; John Smallis, Materiel; John Thordsen, Production Control; Bob Edmondson, Manufacturing engineer; Wayne Bruhn, Quality. TOS² — Dave Evans, OPM; John Levendosky, Materiel; Ernie Albertsen, Production Control; John Perry, Manufacturing engineer; Chuck Smith, Quality. TTC-39 — John McGinn, OPM; Virgil Flink, Materiel; Jon Broen, Production Control; Bob Gaffney, Manufacturing engineer; Marvin Kozberg, Quality. AN/TSQ-73 — Al Alspach, OPM; Bob Whalen, Materiel; Jerry Meherin, Production Control; Ben Rowland, Manufacturing engineer; Val Ramirez, Quality.

Bud Hausman is responsible OPM for Marine Corps & Ships Systems, and George Dean is OPM for Systems Development (including Two Way Data Link, F-15, BTE, Hot Water Heater).

Blind Product Sale February 23 At DSD

Blind-made products will be on sale February 23 in Bldg. 40 cafeteria from 9 a.m. until 3 p.m.

Handcrafted items such as brooms, tablecloths, towels, bath sets and personal articles will be on display. All products are manu-

Credit Union Growth, Prizes, Officers

Continued from Page 1

"once-a-member, always-a-member" policy. Receiving \$25 prizes were Merle Jackson, DSD; Mary Jo Linney, DSD; Lee Ann Zaremba, G&C, and Judy Taylor of

the Credit Union staff. Among the \$10 winners were DSD's Chris Marion, Jerry Kent and John Defata, and former employees Irving Lederman, Sandy Broeske and Ethel Bloomquist.



Credit Union officers and directors include (front row, from left) Dick Cameron (DSD), vice president; Jim Belcher (G&S), president; Evie Marker (G&S), director; (standing) Hal Morgan (G&C) secretary; Norm Roberts (Corporate), director; Richard Tanaka (G&C), director; and Frank Darrah Sr. (DSD), treasurer.

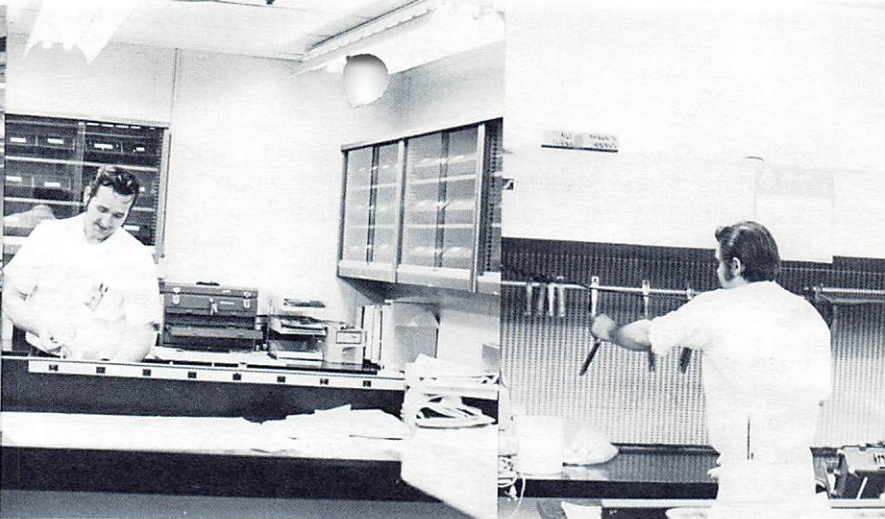


"Windy" the clown entertained youngsters of Litton Employees Federal Credit Union members attending the annual membership meeting. Trampoline performers also were on the entertainment portion of the meeting held at the Sutter Junior High School in Canoga Park.



George McCormick of Data Systems was winner of the Litton microwave oven, top prize for attending the annual meeting.

factured by the blind in production centers, under the supervision of the State Department of Education, Division of Special Schools and Services. The program enables sightless men and women to become economically independent.

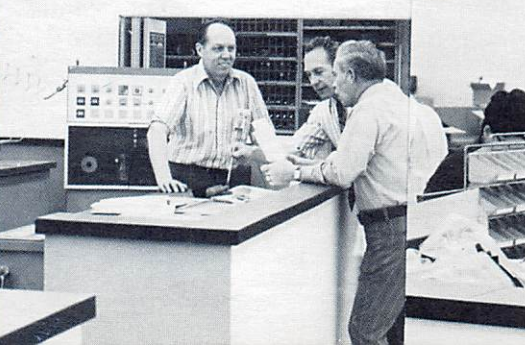
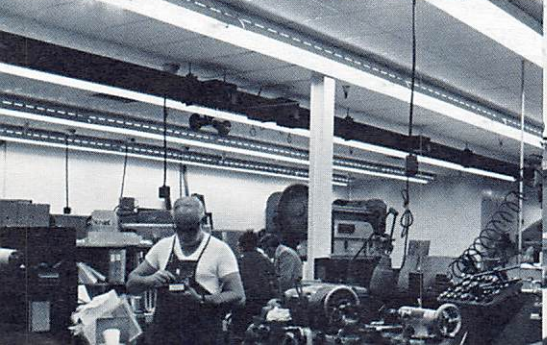
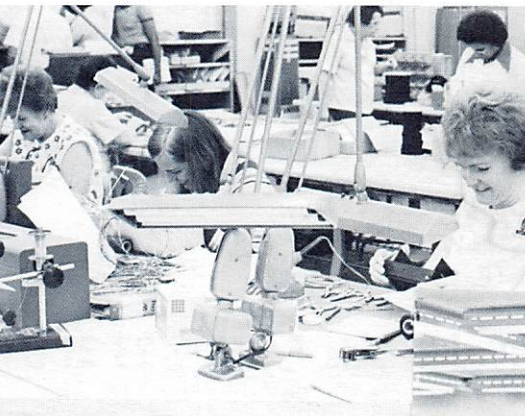
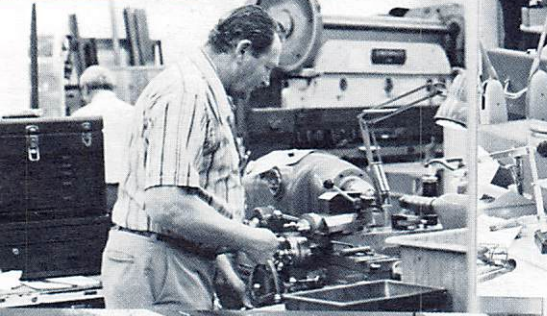
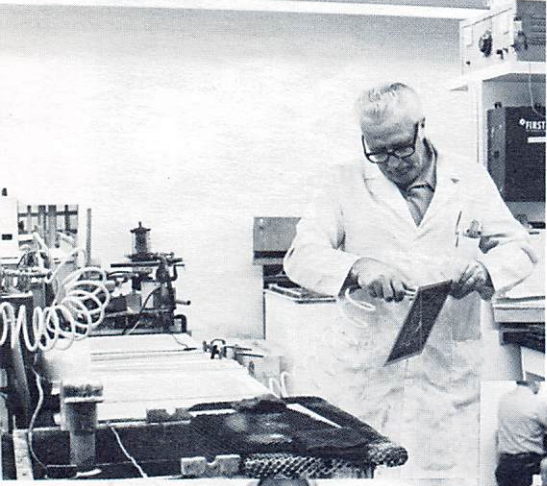
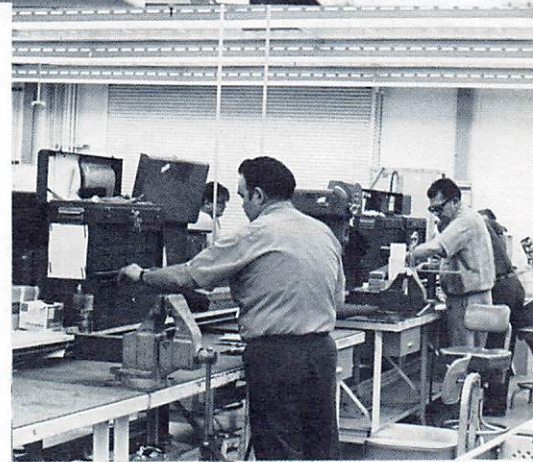


Relocation And Remodeling Brighten Employees' Job

The production areas in Bldg. 40 have been completely rebuilt to provide better working conditions and a more efficient operation.

Ceilings have been lowered and lighting and air conditioning facilities have been improved. Work stations have been made more comfortable, and the area has been painted in tones of blue. Another change which many of the personnel expressed their pleasure was background music. The process lab area added cushioned floors and new process tanks.

Remodeling involved the electrical assembly production line, machine shop, sheet metal shop, and process lab. Many of the personnel involved have recently moved from Bldg. 44.



Discount Prices Available Through Employee Services

Employee Services have the following tickets on sale at discount prices:

Hockey: L.A. Sharks VS Ottawa Nationals at the Sports Arena, Sunday afternoon March 11. \$4.50 loge seats for \$2.00.

Queen Mary: Special rates for Saturday March 3 and Sunday March 4. Regular prices, adults \$3.50, juniors \$2.50 and children \$1.25 . . . special prices \$2.50, juniors \$1.50 and children 50¢.

For this special weekend Litton employees and their families will be welcomed aboard beginning at 9 a.m. Points of interest include the Queen Mary Museum, Jacques Cousteau's Living Sea and the upper decks. These areas will close at 6 p.m. Shops and restaurants will remain open throughout the evening for the passengers' convenience.

For tickets see: Bill Whitney, Culver City; Security officer, Lobby Bldg. 21; or Peggy Vasquez, Bldg. 43.

CALENDAR

ART GUILD — Meets Thurs. eve. at 7 pm, Recreation Cottage. Contact Dave Evans X4172.

BOWLING — Every Thursday at 6:30 pm at the Encino Bowl. Contact John Fornadley X2078.

CAMERA CLUB — Meets 1st & 3rd Wednesday of the month at 6:30 pm, Recreation Cottage. Contact Phil Tabbi X2785.

DANCE CLUB — Meets Tuesdays at noon, Recreation Cottage. Contact Tony Reale X2347.

EQUESTRIANS — Ride twice monthly. Contact Chris Huffman X2135.

FLYING CLUB — 1st Tuesday of month at 5:30 pm in Bldg. 47. Contact Joyce Allmandinger X4442 WH.

GEMCRAFTERS — Meets 2nd Wednesday of month at 7:30 pm, Great Western Savings & Loan, corner of Plumber & Tampa, Northridge. Field Trips. Save Betty Crocker coupons, send to Chuck Geyer MS 48-20. Info Chuck Geyer X2483 or X4274.

GUITAR CLUB — Meets Wednesdays (beginners) & Thursdays (advanced) at noon, Recreation Cottage. Contact Marge Brittain X2094.

GUN CLUB — Shotgun, skeet & trap. Contact Tom Craft X4612 CP.

HAM RADIO CLUB — Meets Thursdays at 7:30 pm in Bldg 32. Contact Herb Goodman X2860 CP.

HANDBALL — Play every Thursday 6-8 pm at Cal State Northridge. Ron Barnholtz X4456.

MEN'S GOLF — Tournament March 31, Los Verdes. Contact M. K. Olsen X2987.

ORCHESTRA — Play Tuesday at 6:15 pm, Recreation Cottage. Contact Elizabeth Kahlenberg X3294 WH or Arnie Kahlenberg X6363 CC.

ROD & REEL CLUB — Next trip March 17. Contact Ken Richter X2050.

SNOW SKI — Contact Tom Brogan X4712 CP.

TABLE TENNIS — Monday & Friday, Recreation Cottage. Contact Karol Twarowski X3915 WH.

TOASTMASTERS — Meets 1st & 3rd Tuesday each month at 6:30 pm. Contact Fred Appleton X4169 WH.

VOLLEY BALL—DSD employees share gym at Sutter Jr. High, Winnetka & Sherman Way with Guidance & Control, Wednesdays from 6-10 pm. Contact John Fisher 887-2405 or Ross Norvell 887-3135.

YOGA — Wed nights at 6 pm Oakwood Apts. WH. Nella Strong X2344.

Service Awards

FIVE YEARS

Paul Barnhard
Donald Brown
Edward Burnett
Emaline Crowell
Stephen Fienberg
Edgar Frye
Dorothy Garrett
Martin Ginsberg
Sam Kesler
Ursula Krummel
Jay Lubin
John McGinn
Thaddeus Michalski
Alexander Mihich
Oscar Morris
Richard Nelson
Sandra Nelson
Thomas Pappas
James Pellegrino
Martin Ross
Roger Townsend

TEN YEARS

Eleanor Banicki
Bernard Barnett
Shoichi Fukushige
Nelly Geelhoed
Cameron Harman
Walter Lenoir
Roy Lindbloom
Lora Miller
Merle Minear
Donald Moeller
Raymond Rennie
Robert Seitz
Edith Stefan
Duane Stone
Rosemarie Taft
Peter Van Sickle
Grant Wood
George Yue



CELEBRATES ANNIVERSARY — Mort Zeitlin (at left) discussed his 15 years at DSD with Ken Walsh, vice president, recently. Mort is "the" Uncle Mort of "Uncle Mort's Electrical Shop" (last month's T-shirt photo).



AH RETIREMENT — Glenn Smith (center) Systems and Procedure, has been at DSD for more than 10 years. On January 25 he retired with plans for a "relatively busy" schedule. Travels will take him to Arizona and northwest Mexico with an eye to potential retirement homes. In about a year plans include seeing Europe for a year. His hobbies will also keep him occupied. They are gourmet cooking, woodworking and model making, and he's a pianist. Good wishes and happy retirement were extended to Glenn by Jack Pio, vice president Finance, and K. Konya, supervisor.

Lubbock Employee's Daughter To Represent U.S. In Malmo

Allan Barker of the Lubbock facility and his wife are mighty proud of their 18-year-old daughter's achievements.

Donna Sue (Suzy) Barker, has been named to the U.S. squad in track and field for the XII World Games for the Deaf to be held in Malmo, Sweden, July 21-28, 1973.

She was chosen as a result of her outstanding performance last summer during the National World Games for the Deaf trials in Morganton, N.C. During the Morganton tryout, Suzy set a world record for deaf women in the 100-meter hurdles in 14.7, broke her own American record in the 100-meter dash, won the 200-meter dash and anchored a winning 400-meter relay team.

Forty nations will compete at Malmo in track and field, swimming, wrestling, basketball, volleyball, soccer, shooting, tennis, cycling, table tennis, water polo, team handball and

gymnastics.

Following the games participants will tour Denmark, Sweden, Norway, Scotland and England for two weeks. Funds for these deaf athletics are raised by civic organizations in communities across the nation.

Suzy attended the last World Games in Belgrade, Yugoslavia. At the age of 15 she was the first deaf woman from the U.S.A. to win four medals at the World Games for the Deaf. She says she wants to win four gold medals at the Malmo Games.

She will be competing in the pentathlon for women in addition to 100-meter hurdles, 200-meter dash and 400-meter relay. The pentathlon will consist of five events — 200-meter dash, 100-meter hurdles, long jump, high jump and shot put.

Suzy's accomplishments and records go on and on. We'll all be rooting for her in July.

Sports Equipment At Cost Plus

Data Systems Employee Services has made arrangements with the Granada Sports Center to give employees a wider selection of sports equipment at discount prices.

Employees ordering through Employee Services will be able to purchase items at cost plus 10%. Those who prefer to go to the Granada Sports Center, 10801 Zelzah Ave. (at Devonshire) in Granada Hills, will receive 10% off the retail price for presenting their Litton discount card.

This arrangement will enable employees to purchase equipment for use in such activities as archery, back packing, basketball, boxing, camping, fishing, baseball, softball, golf, badminton, horseshoes, table tennis, tether ball, volleyball, skin diving, snorkeling, water skiing and hunting. Gym equipment and pool tables are also available.

Included in the selection are such name brands as Spalding, Rawlings, Garcia,

Nokona, Wilson, Seamless, Marcy, Thermos, White Stag, Coleman, Himalayan, Voit and Apache.

Some catalogs are now available at Employee Services in Bldg. 43 with more coming as the manufacturers release them. As soon as quantity permits we plan to have catalogs at the Culver City and Canoga Park facilities also.

Discount cards for Granada Sports Center are available from Peggy Vasquez in Bldg. 43, Bill Whitney in Culver City, and from Security Guard in Bldg. 21.

Your Consideration

Special parking spaces are made available to our customers. These spaces are designated with signs. Please observe these reserved spaces at all buildings by leaving them free for the customer assigned to them.

Contribution Is Appreciated

The Production Department and all employees who helped make the annual cake sale a success were thanked in a letter from Nancy Irving, Coordinator of Volunteer Services, Pacific State Hospital, Pomona. (DSD matched all funds raised for this worthwhile project.)

"Thank you for your generous contributions to benefit the mentally retarded of Pacific State Hospital. Your check is being used to purchase a "learning wall" for our deaf retarded patients. The equipment is very specialized, involving visual learning aids especially adapted for the deaf.

"Our teachers hope that through this special program they can assist these boys and girls in learning sign language and basic daily living skills. For special projects like this, the hospital must depend on the assistance of interested persons such as Litton employees.

"Please convey our appreciation to the Production Department and to all the employees who helped make your cake sale a success. We hope you will be able to visit Pacific and see some of our special programs for the deaf retarded first hand.

Thank you for your interest in helping the mentally retarded."



Suzy Barker is shown center front with other athletes who won medals at the World Games for the Deaf Tryouts in Morganton, N.C. last summer. Suzy wears her gold medals in the 100 meter hurdles, 100 meter dash and the 4x100 relay. She won the trophy as the Most Outstanding Athlete in Track and Field at the Tryouts. Top far left is coach Ruth Seeger.

DSD PROGRAM REVIEW

Continued from Page 3

ital computer, modern electronic situation and tabular display consoles and an extensive communications system.

The preproduction program is entering its final stages of system integration. All hardware has been built, tested and delivered to System Test with the exception of the Litcom intercom system which is scheduled for arrival at DSD in February 1973. The software is undergoing operational discrepancy (OD) resolution with design certification tests (DCT) to be conducted within the next two months.

The DASC system will undergo qualification testing, reliability testing, a maintainability demonstration, and formal acceptance testing during the summer and fall months of 1973 with delivery scheduled for early 1974. Upon delivery to the Government, the Marine Corps will conduct a six month Operational Evaluation Test (OPEVAL) in the field. Litton Engineering and Field Engineering will support these tests.

After successful completion of OPEVAL, the Government plans to exercise the contract options for four production systems which are to be delivered over a period of 21 months. It is anticipated that field support will be provided by Litton following completion of production.

Corps and the Navy, and is planned for operational use in the early 1980s by the Marine Corps.

DTAS provides rapid automatic routing and distribution of messages and data for use in the solution of military operational, administrative and logistic problems during the tactical combat operations. Although transmitted through normal voice and teletype communication channels, the system is based on the use of coded digital messages.

The DTAS system for the Battalion and Regiment level have been undergoing field and service test evaluation for the past year and a half by the Marine Corps Tactical Systems Support Activity in Camp Pendleton, California.

Improvement studies for production planning purposes are presently underway or in the planning phase. These include: 1) the study for the Measurement and Evaluation of Transmission Error (METER), which will record the error data of the DTAS Communication systems, 2) the improved modem breadboard which will increase the bit transfer rate of the modem, and 3) software program improvements.

Skydiving Anyone?

Would you like to learn how to fly without an airplane? You can with the help of a

Valerie Named Vice President

Valerie Antoine has been selected as a national vice president of the Metric Association (MA) during the annual conference in Washington D.C. in December.

Valerie is engineering project supervisor, Navy/Marine Projects Office.

She has also been named Western Regional Director for MA.

"Although the 1972 Senate passed a metric bill unanimously, the slower-acting House of Representatives adjourned before action could be taken, so the bill was killed last year," she says. "But consensus among the metric conference speakers and attendees was that metric

legislation will be passed either in the summer of 1973 or early in 1974."

Currently Valerie is serving on the Society for Technical Communications (STC) National Metric Committee and is editor of the chapter's award winning newsletter. In addition Valerie is working with the Los Angeles Office of the U.S. Department of Commerce to organize a Southern California Metric Task Force.

A few tips on the metric systems — A kilometre is about $\frac{5}{8}$ or 62% of a mile. A metre is approximately 10% longer than a yard. Four inches are about 100 millimetres.

Four Tires To Be Given Away

There are lots of ways to say "thank you" and the Trainer Tire company is saying just that by giving away four glass belted Uniroyal tires to some lucky Data Systems employee on February 28th.

"For almost a year we have offered Litton employees wholesale warehouse prices on Uniroyal tires, as well as on many other brands," said Howard Fink, manager of group purchases for Trainer Tire. "Those who have bought tires from us saved from \$6 to \$20 per tire off the retail price. So we're giving away four tires in appreciation of Data Systems employees' response to our offers."

Trainer Tire price lists and identification cards are available from Peggy Vasquez in the Employee Services office in Bldg. 43.

To have your name entered in the drawing, clip out the coupon below and fill it out. You can either mail it to Employee Services, mail station 43-17, or drop it in one of the coupon collection boxes. There will be one at the Employee Services window in Bldg. 43. Coupon collection boxes will also be placed with the Security Guard in Bldg. 21 lobby and with Bill Whitney in Culver City. Should the winner be based outside the state of California, he or she would be asked to pay the shipping charges.

The drawing is scheduled for February 28th, so don't delay getting your coupon in.

The Bargainmart

a free service to employees.

Next deadline/Tuesday Noon, March 6

FOR SALE

DODGE — '70 Dart Swinger, V-8, air cond, pwr steering, vinyl top, auto trans, r/h. Only 26,500 mi, assume bal of Chrysler Corp. 50,000 mi warranty. \$2150. 782-0787.

CHEVROLET — '68 Impala, 9 pass wgn, xlnt cond, air, pwr str/brakes, tinted glass, new tires (mid-blue bk) \$1100 or make offer. 888-9212.

CHEVROLET — '69 Caprice, 4 door, w/air. \$1395. 363-7868.

VW — '70 Squareback, 500 miles on 3/4 rebuilt engine, new clutch, injection computer, rear brakes, good tires, radio, roof rack, light blue w/ white interior. 24-32 mpg, '73 reg paid. \$1700. Roy Prideaux 805-252-0531.

PICKUP — '67 Chevrolet 327, auto, pwr/str & brakes, clean. \$1150. 255-5458.

VW CAMPER — '72 bus, pop-top, slps 4, new car warranty, many extras. 5600 mi. \$3700. 805-497-3395.

VAN — Ford '65 station bus, big 6, 240 cu in engine, shift, 3 speed, r/h, a/c, top mounted, 3rd seat, extended body/heavy duty, xlnt cond. 892-8489.

OLDS — '69, 442, 4 speed, am/fm radio, tape deck, air, xlnt cond. Asking \$1700. 348-7883.

MGB — '72 Roadster, mint cond., customized exhaust system & carburetion. \$3365. 457-2879.

CORVETTE — '69 white, 34K mi., pwr brakes/windows, orig. owner. Ursula Roth, 273-7860 days.

PONTIAC — '65 Bonneville 4-dr hardtop, air, pwr str/brakes, tint glass, new brakes, good tires/batt, xlnt cond. \$595 or trade for later model 4-dr car. 343-8076 eve.

VW CAMPER — '63 xlnt mech. cond. Make offer. 341-9840 after 4.

DUNE BUGGY — Tubular chassis, VW front end, Corvair transaxle set-up ready for engine. \$100. 889-0785.

MOTORCYCLE — 80 cc Suzuki, knobby tires, good cond. 805-487-1425

CHOPPER — Harley-Davidson Sportster, '66 XLH custom, like new, must sell. \$1300 or best offer. 882-6350.

YAMAHA — '69 Enduro, 125 cc, reasonable 789-2475 after 6 pm wkdys. All day wknds.

SKIIS — Head 360, two pair, one w/bindings. Make offer. 886-2730.

PIANO — Beautiful antique upright, natural oak finish w/ matching bench. Needs tuning. \$250 or reasonable offer. Please call after 6 pm 341-8287.

SHAKLEE — Want to purchase Shaklee products? Phone 363-8025.

TABLE LAMPS — 2 matching 42", very nice. Cost \$120 will sell for \$25. 885-0246.

TENT TRAILER — '69 Wheelcamper Executive model, slps 7, pullout kitchen, 3-way re-frig, wardrobe, 11,000 BTU furnace, 12V lighting, surge brakes, pressure water, awning w/drop sides, '73 tags. Xlnt cond. \$1750. 341-0050.

MISC — Set hammered brass wall plaques (1 large, 2 med) \$8; 39 in-wide deluxe roll-away bed (used 1 time) xlnt cond. \$37.50; TV tray set on rollers (gold & blk) \$4; large picture in frame \$4; 5 pair plain green cafe curtains w/ rings (never used) \$4. 988-5768.

BLUE CHIP STAMPS — 25 books, \$2 each. 391-3972.

GOLF CLUBS — MacGregor, Tom Weiskopf Crown model, woods, set of 3 (1-3-4). \$36. 348-5693.

GUITAR — "Escade" Classical, 6 string, nylon, hardcase & Gemm sound reflector. \$95. 346-2666.

CAMERA — Kodak Duaflex IV & flash. Near new & complete. \$10. 391-3972.

ELECTRIC RANGE — New '72 GE 30" white, glass door, p/b controls, new home, never used. \$225. Call after 7 pm 805-498-6372.

COLLECTOR ITEMS — Old Avon bottles. Reasonable. Call Mimi. 346-2666.

DRAFTING BOARD — Tilt top,

BIRD CAGE — All accessories, hardly used, like new. \$5.00. 780-4686.

POLAR BEAR RUG — Elegant conversation piece, 7 ft, bearskin, w/head xlnt cond, \$1000. 213-329-1049 or 714-842-2965.

PIANO CONSOLE — Made-to-order by Ivars & Ponds, beautiful cherrywood in French Provincial style, looks like new, orig cost \$1450. Will sacrifice for \$650. Call 360-3284 eves.

KENMORE — Washer & Dryer, electric, copper tone. Washer \$150. Dryer \$100. 882-8298.

STOVE — GE electric, 44" range, double oven, copper tone. \$80. 882-8298.

CAMERA — 4x5 Super Graphic w 65mm, 135mm & 210mm lenses, Polaroid holder, 24 cut film holders, Vulcanoid case. Like new, make offer. (805) 259-0882.

RIFLE — Winchester model 60, .22 cal. pump-action w scope. 472-1712.

VIOLIN — Student 3/4 size, xlnt cond. \$45. (805) 495-5159.

GUITAR — Electric, solid body, good cond. \$15. 363-8734.

GOLD — Ounce of native gold, legal to own. \$75. (805) 486-3710.

TRANSCEIVER — Collins KWM2. 556-2721 eve.

WEDDING GOWN — Exq. w detach. train, pearl tiara/veil, size 9, empire waist, organza w pearls. \$60. 987-1237 eve.

HOUSE — 4 bdrm, 2 ba, raised found., ref. air, elec. filter, f/p, 2-car gar., new block wall. Near all schools, Chatsworth. 341-9792.

LOT — Big Bear 50x100' vacation prop. \$3500 or offer. 341-8467.

FOR RENT

TRUCK CAMPER — Self-cont., a/c, sleeps 5. Low rates: \$16 day, \$112 week, 4¢ mile. Reserve for summer. 344-8432.

CABIN — Crestline/Lake Gregory, 3 bdrm, furn., TV cable. \$35 weekend, \$105 week. 363-8734.

FAMILY CONDOMINIUM — Mammoth Lakes, new fully equip, slp 8, located 6/10 mi chairs 7 & 8. 340-2947.

CONDOMINIUM — 3 bdrm studio, Mammoth Lakes, slps 12. For info & reserv call (213) 785-0979 or (714) 837-6719.

APARTMENT — 1 bdrm, adult garden apt, pvt patio, unfurn. \$170/mo. lg pool, No Hollywood, close to shopping/trans. 788-9648.

CHALET — Crestline/Lake Gregory/San Moritz area, slps 8, comp furn, \$16/day. \$100/wk. 886-0739.

CONDOMINIUM — Mammoth Lakes, slps 14, fully equip w/ access to a jacuzzi, sauna & pool table. Rates are competitive. 345-7529.

APARTMENT — 1 bdrm, No Hollywood, furn, close to shopping & park \$115. 761-9777.

MOTORHOME — '72 slps 8, fully contained. \$25 day, 5¢ mi. (805) 495-1515.

CABIN — Mammoth, 3 bdrms, 2 1/4 bas, electric range, dishwasher, firepl, compl furn, nr chairlifts 7 & 8. Wknds & holidays \$65 day, Sun thru Thurs \$50 day. Call (213) 454-4307 or (805) 497-8402.

CABIN — Crestline/Lake Gregory,, 3 Bedroom, furn., TV cable. \$15 night; \$90 week. 363-8734.

CHALET — Crestline/Lake Gregory/San Moritz area. Slps 8, TV, crib. \$22 day. 883-1334.

WANTED

CHAINS — For 8:50 X 14 tires. 888-9212.

TRUNK — Old fashioned, for Boy Scouts, need to transport equip, good tax deduction. 888-9212.

MISCELLANEOUS

WANTED — Good home for beautiful, affectionate cat. 325-7860.

INCOME TAX PREPARATION — Federal & state \$7.50 up. Call Jay Lubin, 883-2729.

SUPPLEMENTAL INCOME — Unusual financial opportunity in off-hour sales. 894-1552.

ACOUSTICAL CEILINGS — One day application, 1st qual., gold and/or silver flake, guaranteed. Free estimate 347-2271 days.

RE-STUCCO COLOR — Spanish, Mediterranean or Sand styles

MISCELLANEOUS

INCOME TAX PREPARATION — Federal & State, reas. rates. Irving Robins 344-3459 eve.

AUTO AIR CONDITIONING — Service (\$7.50 re-charge & leak check inc. freon) noon or eve. 340-0144.

FREE POODLES — 2 male pups born Christmas Day. (805) 498-6424.

Mark your calendars: Litton's day at Disneyland is May 12, and the picnic will be held on August 25. Plan to attend these great annual events.

Billards Trophies Awarded To Tournament Winners



Trophy winners from Culver City are Dan Schaaf, 1st high run; Al Ungar, 2nd all around & 1st 9 ball; Ron Coder, 3rd — 14-1 straight billiards; Gordon Brown, 3rd all around; Ed Weber, 1st all around & 1st 8 ball; Stan Williams, 2nd place — 14-1.



Billiard trophies were presented to Van Nuys winners (from left): Russ Granthum accepted for Ray Wendell, special last place award; Tony Assalley, 1st 8 ball; Dan Schaaf, 1st place 14-1 game; and Dik Ekmanian, 2nd — 14-1. Fred Erickson was 2nd 8 ball, but could not attend.

Fishing Club Officers Elected For 1973

Rod and Reel Club members cast out their ballots for 1973 officers. Those caught with the most votes were Gordon Brown, president; John Perry, first vice president; Al Hugueney, second vice president; O. B. Vangelli, treasurer; Ken Richter, recording representative; Alice Jessen, secretary; Norm Scheer, sergeant at arms.

During the banquet, held at the Oak Room in Encino, trophies were also awarded. "Fish of the Year" trophy went to Al Hugueney for an 18 pound halibut caught on the May 20 trip out of Port Hueneme.

The monthly trophies for best fish were awarded to Al Hugueney, Chuck Dancy, Ken Richter, Roland Ferro, and Leo Tarr. Norm Costello and Irv Reizes were tied one month.

SKI PARTY SET

Join the Litton Ski Club at their February 22 meeting and pour over tall tales and cool wine. The meeting will be combined with a wine tasting party, sponsored by the California Wine Growers Association. Members of the Guidance and Control Ski Club also are invited to attend.

The place is the Brooks Apartments' Recreation Room, 17200 Burbank Blvd. (Ventura Fwy. to Balboa, north one block to Burbank, Burbank west one block). Activities start at 7:30 p.m.

Contact Mike Levantine, X2730 or X3496, by February 16 if you plan to attend.

STOCK QUOTE

Employees paid	\$ 9.66
Company paid	2.42
Average price per share for January 1973	\$12.08



Tess Slader accepted trophy for Bill Pepper, 1st one-pocket, from Al Ungar, Billiards' president.



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news & opinion

FIRST AID TAUGHT TO SECURITY GUARDS

First Aid Certificate classes are presently being given to most DSD guards. Instructor is Jim Brummett, security.

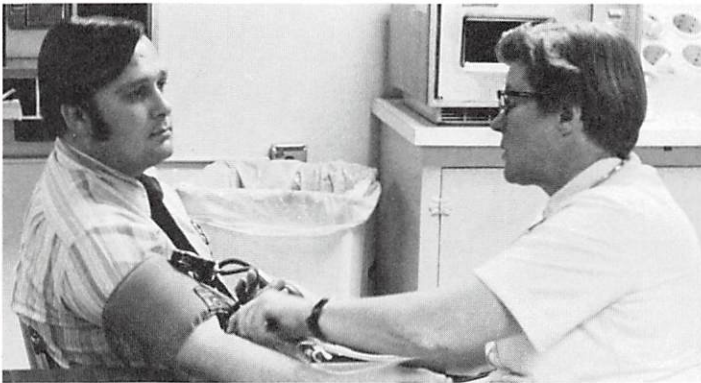
The 10-hour course consists of two hours on a Tuesday or Thursday in the Van Nuys and Culver City locations for all three shifts.

Sessions cover control of bleeding, stoppage of breathing, poisoning, instruction on care of general wounds, how to protect them from further infection, bandaging, splinting, slings

and methods of artificial respiration. Jim stated he would like to offer, at a future time, first aid courses open to all employees. Those interested in participating may contact Jim.

In Van Nuys and Culver City all emergencies should be reported to extension 2333 for prompt attention. In Woodland Hills the extension is 2345 and in Canoga Park report emergency situations to the supervisors.

Blood Drive Is A Success

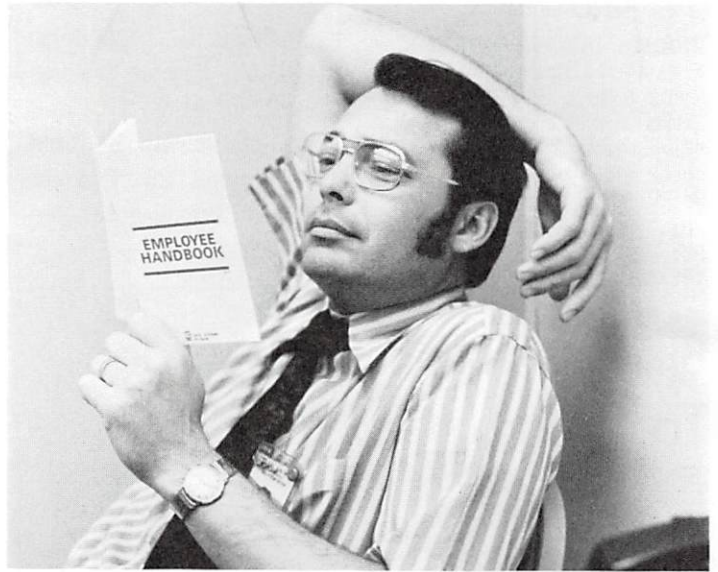


On January 25th, Data Systems employees rallied to the call and brought our Blood Bank account 85 pints back into the black with 132 pints of their life-saving blood.

All donors receive credit in their personal blood account as well as helping their fellow employees and their families by donating to the Data Systems' Blood Bank. A bloodmobile is scheduled for the Culver City facility on April 6th.

A letter was received from the American National Red Cross which stated,

"Thank you very much for the cooperation received from the management and staff of Litton Data Systems. This type of excellent cooperation is what makes possible the job of providing volunteer donated blood to our community hospitals by the Red Cross possible."



THE FACTS — Reading all about the employee benefits, policies and company history in the new Employee Handbook is John Kuzma, Facilities. Every DSD employee should have received his own copy of the new handbook. Anyone not receiving one should contact Employee Services, X2561, Van Nuys.



DATA SYSTEMS
Box 7601, Van Nuys, Cal. 91409

